

ABSTRACT

A remotely operated laser survey device for performing a runway survey on a rail system that supports a device such as an overhead crane. The survey device includes a laser assembly and a survey car. The laser assembly can include a self-leveling laser. The survey car includes an image acquisition device and can be self-propelled by a drive mechanism. Images obtained using the image acquisition device are transmitted to a remote computer for analysis. The analysis can include a centroidal analysis of the image. Deviation of the rails is compared to established standards and correction carried out if necessary. The image acquisition device can be triggered to obtain images based on movement of the survey car. The survey car can be centered on a rail of the rail system to ensure accurate results regardless of the condition of the rail.

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